

बन्सीलाल रामनाथ अगरवाल चरिटेबल ट्रस्ट संचालित

विश्वकर्मा इंस्टिट्यूट ऑफ टेक्नॉलॉजी

(पुणे विद्यापीठाशी संलग्न स्वायत्त संस्था)

६६६, अप्पर इंदिरानगर, बिबवेवाडी, पुणे - ४११ ०३७.

Approved by A. I. C. T. E. New Delhi



Bansilal Ramnath Agarwal Charitable Trust's

Vishwakarma Institute of Technology

(An Autonomous Institute Affiliated to University of Pune)

666, Upper Indiranagar, Bibwewadi, Pune - 411 037.

Identification No. - PU/PN/Engg./061/(1984)

**TO WHOMSOEVER IT MAY CONCERN**

**SUBJECT: OFFICIAL TRANSCRIPT OF Mr. Atul Rungta**

Dear Sir/Madam,

This is to certify that Mr. Atul Rungta was a bona-fide student of Vishwakarma Institute of Technology from July 2005 onwards. He joined the college in the year 2005 for the regular, four-year undergraduate course in Computer Engineering offered by the University of Pune (formerly known as the University of Poona), India. He has successfully completed the first three years under the University of Pune as per its syllabus and examination and evaluation pattern. From the academic year 2008-09 Vishwakarma Institute of Technology became an autonomous institute affiliated to the University of Pune. So he has completed his Final year in May 2009, in the Autonomous syllabus, examination and evaluation pattern. The degree will be awarded by University of Pune.

Mr. Atul Rungta is applying for admission in your esteemed institution. During the years in this institute, he has proved to be sincere and hard working. He bears a good moral character and fine conduct. I assure you that he will be an asset to your institution.


To facilitate the review of his application, we enclose the following:

1. Salient features of

- a) The University of Pune
- b) Vishwakarma Institute of Technology, Pune
- c) Department of Computer Engineering

2. Teaching & Examination scheme prescribed by University of Pune for the first three years and by Vishwakarma Institute of Technology, Pune for the final year.

3. Certified Mark sheets of Mr. Atul Rungta

  
Registrar,  
Vishwakarma Institute of Technology.  
Pune-37



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## UNIVERSITY OF PUNE

The University of Pune is located in Pune, the educational capital of India. It has a reputation as a leading center for research and is rated among the **top 10 universities in India**. The university was established more than 100 years ago, and has offered engineering programs since 1949. This includes Bachelor and Masters program in Computer Science, Electrical, Electronics and Telecommunication, Mechanical, Civil and Metallurgical Engineering. The university offers Bachelors programs in Automobile, Chemical, Industrial, Instrumentation, Polymer and Petroleum Engineering.

Our University houses **IUCAA** (Inter University for Astronomy), the pioneer research institute in Asia, and **NCRA**, (National Center for Radio Astronomy), which is currently engaged in the **GMRT** (Giant Meter wave Radio Telescope) project, the largest of its kind in the world.

The Center for Development of Advanced Computing (**CDAC**), which has indigenously developed the "Param Supercomputer", is a valuable another asset of Pune university.

Our University is recognized by the University Grant Commission (**UGC**) to develop Audio and Video aided information films on subjects of varied interests, via its Audio Video Research Center (**AVRC**) and Electronic Media Research Center (**EMRC**).

Each academic year has two semesters with examinations at the end of each semester. The results of each academic year are based on the average of performance in both the semesters. The medium of instruction is **English**.

The University of Pune is only the second university in India, which has acquired a US patent (No. 6204670) for a technique devised to measure and monitor moisture in materials in a fraction of second.

The campus of the university is spread over an area of 411 acres and it is set in sylvan surroundings with its 41 postgraduate departments. There are more than 200 affiliated colleges and more than 10 recognized research institutes affiliate to University of Pune. The University of Pune has 159 subjects included under 13 faculties. There are a large number of Degree, Diploma and Certificate courses at Graduate and Post Graduate levels in various disciplines. The University of Pune attracts international students in large numbers. At any given time, the university has more than 2000 foreign students studying in different colleges and university departments. Pune has a reputation of being the leading center for higher education and research.



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### **VISHWAKARMA INSTITUTE OF TECHNOLOGY**

Vishwakarma Institute of Technology is a highly commendable renowned private institute, which is one of the premier Technical Institutes in the Western region of India. Established in 1984, financed and run by The Bansilal Ramnath Agarwal Charitable Trust, it is affiliated to the University of Pune. It is recognized by the Government of Maharashtra, and is approved by A.I.C.T.E. (All India Council of Technical Education). Within a quarter of century, the Institute has grown from 2 undergraduate courses to 9 undergraduate, 6 post-graduate programs. A large number of our students have been admitted to various international universities in countries like USA, Great Britain, Germany, France, etc.

The college is spread over 17 acres of land and comprises of academic building areas, playgrounds and hostel on a plot admeasuring 6.5 acres with built up area of 32045 square meters. It has at present over 2800 students, 204 faculty members and 200 supporting staff members. 20 of the faculty members are Ph.D holders. The college has 70 well equipped laboratories having instruments worth Rs. 101.7 Million.

Vishwakarma Institute of Technology offers the following undergraduate and post graduate programs :

#### **Under Graduate programs :**

Sr. No	Courses
1	Industrial Engineering
2	Electronics Engineering
3	Mechanical Engineering
4	Computer Engineering
5	Instrumentation and Control Engineering
6	Chemical Engineering
7	Production Engineering
8	E & TC Engineering
9	Information Technology

#### **Post graduate Programs :**

Sr. No	Courses
1	M.E. Mechanical (Heat Power)
2	M.E. Mechanical (Design Engineering)
3	M.E. Computer Science & Engg.(Information Technology)
4	M.E. (Industrial Engineering)
5	M.E [Instrumentation Engg. (Process Instrumentation)]
6	Master of Computer Applications (MCA)
7	M.E. Chemical Engineering
8	M.E. E & TC Engineering

#### **Research (Ph.D.) Programs :**

Sr. No	Courses
1	Mechanical
2	Chemical Engineering
3	Industrial Engineering
4	Instrumentation & Control Engineering



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All undergraduate programs and two of the post graduate programs have been accredited by National Board of Accreditation, New Delhi

Vishwakarma Institute of Technology is one of the few institutes in India to have been selected for Technical Education Quality Improvement Program (TEQIP) by the Ministry of Human Resource Development. This program is being run with assistance from World Bank.

Vishwakarma Institute of Technology is an ISO9001-200 certified institute.

Admissions to the undergraduate courses are based on the state level and national level competitive examination conducted by the respective governments. Admissions to Postgraduate programs are based on national competitive test i.e. Graduate Aptitude Test in Engineering (GATE), conducted by Indian Institutes of Technology. The competition is extremely keen and admission is restricted to top 1.0% of candidates appearing for the said examination.



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**MISSION STATEMENT OF VISHWAKARMA INSTITUTE OF TECHNOLOGY**

*Our mission is to prepare competent Engineers, imbued with the spirit of professionalism and responsible citizenship, in a competitive global environment. To this end, management and faculty commit themselves to the pursuit of excellence in technical education through discovery and dissemination of knowledge, development of technical and social skills and inculcation of values that define professional conduct.*



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### **IMPORTANT FEATURES OF VISHWAKARMA INSTITUTE OF TECHNOLOGY**

1. Vishwakarma Institute of Technology is a premier engineering institute in Pune, established in 1984. The college spreads over 17 acres of land.
2. The staff of Vishwakarma Institute of Technology has formed an active chapter of Indian Society for Technical Education (I.S.T.E).
3. The faculty members are also members of many prestigious institutions such as Institute of Electronic and Telecommunication Engineering, Institute of Electrical and Electronics Engineering (IEEE), Computer Society of India and the National society for Remote Sensing, **Society of Automotive Engineers (SAE)**, **American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE)** and also authored many books of subject interest from well-known publishing houses.
4. Vishwakarma Institute of Technology gives great emphasis on academic development of its staff through periodic Implant training programs to keep abreast with the latest technology.
5. The staff of Vishwakarma Institute of Technology has formed a "Quality Circle", which was selected for presentation at national level.
6. Vishwakarma Institute of Technology has formed student's **Chapter of Instrumentation Society of America (I.S.A.)** in January 1996.
7. Vishwakarma Institute of Technology has two lead assessors who carry out consultancy work for industries seeking ISO 9000 certification.
8. Vishwakarma Institute of Technology is an authorized counseling center for B.C.A. and M.C.A. course under Indira Gandhi National Open University (IGNOU).
9. Vishwakarma Institute of Technology has setup a campus wide network connecting around 200 intelligent nodes to each other via UTP /-Fiber Optic Link situated in four different buildings. Internet facility has been transferred to all departments through proxy server.
10. Vishwakarma Institute of Technology is planning to be an **Authorized Training Center for CAD/CAM software of Structure Dynamic Research Corporation, USA.**
11. Vishwakarma Institute of Technology is a "Receiver Institute" (RI) to induct bright students to teaching profession. Scholarships are given in the final year on behalf of A.I.C.T.E, New Delhi. Such students would be offered admission to P.G. course in I.I.T. or similar institute.



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### **DEPARTMENT OF COMPUTER ENGINEERING**

The Computer Engineering Department of the college is headed by Prof. S. Y. Prabhu. It has a very good Computer infrastructure and is well equipped with laboratories having DEC 5200, DEC 1200 servers with CD ROM DAT drive & 40 DEC 3010 LP nodes.

The department also manages the fully connected campus wide network with NT domain servers, as well as UNIX and Novell servers having nearly 200 nodes.

Students and staff are provided unrestricted access to the Internet to tap its vast knowledge base. Students work on the UNIX, Windows NT and Novell platforms.

Vishwakarma Institute of Technology has been very successful in keeping abreast with new and emerging technologies and the same has been made available to the students.

Vishwakarma Institute of Technology has a good Industry-Institute Interaction and association with professionals in I.T. field through the Industrial Advisory Board (I.A.B.). The I.A.B consists of Managing Directors, Vice-Presidents and other prominent professionals of various Multi-National Corporations like

Cirrus Logic,

Tata Consultancy Services,

Parametric Technologies Corporation,

C-DAC Center for Development of Advanced Computing etc.



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#### **SALIENT FEATURES OF THE COURSE OF COMPUTER ENGINEERING:**

The computer-engineering course consists of Four Academic year, each consists of two semesters with an examination at the end of each semester.

During the last two semesters, the student works on a project geared to the needs of the industry and at the end of the last semester he is examined on the basis of his project report and viva voce.

The Project work during the final year is instrumental in boosting up confidence of students before they take up further studies or any industrial assignment.

The students are also required to present a seminar in the final year that develops not only their ability to research, but also their communication and interpersonal skills.





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**EXAMINATION AND GRADING SCHEME PRESCRIBED BY UNIVERSITY OF PUNE**

The following are the details of the Examination Scheme prescribed for the degree course in Computer Engineering by the University of Pune, along with the performance of the following candidate in the examination

**Name:** Mr. Atul Rungta

**Period of Study:** July 2005 to May 2009

The Bachelor's degree course in Computer Engineering is of four years duration and each academic year has two semesters. At the end of each semester an examination is held.

- 1 The medium of instruction is **English**.
- 2 All subjects are compulsory, except in the final year, where students have a choice of two elective subjects and a project.
- 3 Each semester is of 16 weeks duration; there are 8 semesters.
- 4 Each Lecture is of one hour duration.
- 5 Theory papers, term work, oral and practical examinations require minimum of 40 % for passing.
- 6 A student can be awarded a maximum of 10 out of the total marks of the year as a grace, either to clear a subject or to obtain the nearest highest class as per ordinance no. Q-138 (A) of University of Pune.
- 7 The University of Pune does not employ the Grade Point Average( GPA) system ,but uses aggregate percentage of marks obtained by a student in a year to award classes as follows;

% MARKS	CLASS AWARDED
66 and above	First class with Distinction
$\geq 60$ & $< 66$	First Class
$\geq 55$ & $< 60$	Higher Second Class
$\geq 50$ & $< 60$	Second Class
$\geq 40$ & $< 50$	Pass Class
Below 40	Fail



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8 The Grading scheme of Vishwakarma Institute of Technology is as follows

**GRADE POINT:**

AA - (Excellent/Out Standing):10	AB - (Very Good):9	BB - (Good):8
BC - (Fair):7	CC - (Above Average):6	CD - (Average):5
DD - (Below Average):4	FF - (Fail):0	AP - (Audit Course Passed)
II - (Absent for the Exam but not detained)	XX--(Detained, Re-register for course)	PP - (Passed Only for non Credit Course)
NP - (Not passed-only for non Credit Course)	CPI-Cumulative performance Index	SPI - Semester performance Index

*It may be noted that the students of the University of Pune face a strict assessment, therefore the number of students acquiring a First Class with Distinction is few as compared to other Universities and Institutes in India.*



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**BACHELOR'S DEGREE COURSE IN COMPUTER ENGINEERING**

**Name: Mr. Atul Rungta**

**First Year Academic (Aug 2005 to June 2006)**

**Examination Number: F3040044**

**Passing Year: May 2006**

**Semester 1**

Subject	Hours Per Week			Maximum Marks				Total	Marks Obtained				Total
	L	P	D	PP	PR	TW	OR		PP	PR	TW	OR	
Engineering Mathematics I	4	-	-	100	-	-	-	100	87	-	-	-	87
Applied Sciences I	4	2	-	100	-	25	-	125	50	-	22	-	72
Basic Mechanical Engineering	3	2	-	100	-	25	-	125	42	-	19	-	61
Basic Electrical Engineering	3	2	-	100	-	25	-	125	54	-	17	-	71
Basic Civil Engineering	3	2	-	100	-	25	-	125	60	-	24	-	84
Engineering Graphics I	1	-	2	-	-	25	-	25	-	-	20	-	20
Workshop Practice I	-	2	-	-	-	25	-	25	-	-	21	-	21
<b>TOTAL</b>	<b>18</b>	<b>10</b>	<b>2</b>	<b>500</b>	<b>-</b>	<b>150</b>	<b>-</b>	<b>650</b>	<b>293</b>	<b>-</b>	<b>123</b>	<b>-</b>	<b>416</b>

**Semester 2**

Subject	Hours Per Week			Maximum Marks				Total	Marks Obtained				Total
	L	P	D	PP	PR	TW	OR		PP	PR	TW	OR	
Engineering Mathematics II	4	-	-	100	-	-	-	100	59	-	-	-	59
Applied Sciences II	4	2	-	100	-	25	-	125	47	-	19	-	66
Engineering Mechanics	3	2	-	100	-	25	-	125	48	-	12	-	60
Basic Electronics Engineering	3	2	-	100	-	25	-	125	45	-	12	-	57
Engineering Graphics II	3	-	2	100	-	25	-	125	45	-	11	-	56
Computer Programming	1	2	-	-	-	25	-	25	-	-	18	-	18
Workshop Practice II	-	2	-	-	-	25	-	25	-	-	20	-	20
<b>TOTAL</b>	<b>18</b>	<b>10</b>	<b>2</b>	<b>500</b>	<b>-</b>	<b>150</b>	<b>-</b>	<b>650</b>	<b>244</b>	<b>-</b>	<b>92</b>	<b>-</b>	<b>336</b>

**Total for the Year: 752/1300**

**Result: Higher Second Class**

**Percentage: 57.85%**

Abbreviations used:

L - Lectures

P - Practicals

D - Drawing

PP - Paper

TW - Term work

PR - Practical

OR - Oral

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## BACHELOR'S DEGREE COURSE IN COMPUTER ENGINEERING

Name: Mr. Atul Rungta

Second Year (2006 to 2007)

Examination Number: S3044214

Passing Year: May 2007

Semester 3

Subject	Hours / Week			Maximum Marks				Total	Marks Obtained				Total
	L	P	D	PP	TW	PR	OR		PP	TW	PR	OR	
Discrete Structures	4	-	-	100	-	-	-	100	45	-	-	-	45
Electronic Devices and Circuits	4	-	-	100	-	-	-	100	44	-	-	-	44
Digital Electronics & Logic Design	4	-	-	100	-	-	-	100	51	-	-	-	51
Data Structures and Algorithm	4	-	-	100	-	-	-	100	45	-	-	-	45
Financial and Industrial Management	4	-	-	100	-	-	-	100	56	-	-	-	56
Programming Laboratory	2	4	-	-	25	50	-	75	-	20	43	-	63
Digital Electronics Laboratory	-	4	-	-	25	50	-	75	-	20	33	-	53
Soft Skills	-	4	-	-	50	-	-	50	-	36	-	-	36
<b>TOTAL</b>	<b>22</b>	<b>12</b>	<b>-</b>	<b>500</b>	<b>100</b>	<b>100</b>	<b>-</b>	<b>700</b>	<b>241</b>	<b>76</b>	<b>76</b>	<b>-</b>	<b>393</b>

Semester 4

Subject	Hours / Week			Maximum Marks				Total	Marks Obtained				Total
	L	P	D	PP	TW	PR	OR		PP	TW	PR	OR	
Engineering Mathematics III	4	-	-	100	-	-	-	100	70	-	-	-	70
Microprocessor and Interfacing Techniques	4	-	-	100	-	-	-	100	48	-	-	-	48
Computer Graphics	4	-	-	100	-	-	-	100	48	-	-	-	48
Data Structures	4	-	-	100	-	-	-	100	45	-	-	-	45
Computer Organization	4	-	-	100	-	-	-	100	47	-	-	-	47
O. O. Programming & Comp. Graphics Lab	2	2	-	-	50	50	-	100	-	37	37	-	74
Microprocessor & Interfacing Laboratory	-	4	-	-	50	50	-	100	-	35	42	-	77
Data Structures Laboratory	-	4	-	-	50	50	-	100	-	37	40	-	77
<b>TOTAL</b>	<b>22</b>	<b>10</b>	<b>-</b>	<b>500</b>	<b>150</b>	<b>150</b>	<b>-</b>	<b>800</b>	<b>258</b>	<b>109</b>	<b>119</b>	<b>-</b>	<b>486</b>

Total For the Year: 879 / 1500

Percentage: 58.6 %

Result: Higher Second Class

Abbreviations used above are as follows: -

L - Lectures

P - Practical

D - Drawing

PP - Paper

PR - Practical

TW - Term work

OR - Oral

*(Signature)*

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बन्सीलाल रामनाथ अगरवाल चॉरिटेबल ट्रस्ट संचालित

विश्वकर्मा इंस्टिट्यूट ऑफ टेक्नॉलॉजी  
(पुणे विद्यापीठाशी संलग्न स्वायत्त संस्था)

६६६, अप्पर इंदिरानगर, बिबवेवाडी, पुणे - ४११ ०३७.

Approved by A. I. C. T. E. New Delhi



Bansilal Ramnath Agarwal Charitable Trust's

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**BACHELOR'S DEGREE COURSE IN COMPUTER ENGINEERING**

Name: Mr. Atul Rungta  
Third Year (2007 to 2008)  
Examination Number: T3044213

Passing Year: May - 2008

Semester 5

Subject	Hours/Week			Maximum Marks				Total	Marks Obtained				Total
	L	P	D	PP	TW	PR	OR		PP	TW	PR	OR	
Database Management Systems	4	-	-	100	-	-	-	100	49	-	-	-	49
Data Communications	4	-	-	100	-	-	-	100	62	-	-	-	62
Microprocessor & Micro Controller	4	-	-	100	-	-	-	100	52	-	-	-	52
Digital Signal Processing	4	-	-	100	-	-	-	100	62	-	-	-	62
Theory of Computation	4	-	-	100	-	-	-	100	40	-	-	-	40
RDBMS & Visual Programming Laboratory	-	4	-	-	50	50	-	100	-	40	30	-	70
Signal Processing Laboratory	-	4	-	-	25	-	50	75	-	20	-	35	55
Hardware Laboratory	-	4	-	-	25	50	-	75	-	21	30	-	51
<b>TOTAL</b>	<b>20</b>	<b>12</b>	<b>-</b>	<b>500</b>	<b>100</b>	<b>100</b>	<b>50</b>	<b>750</b>	<b>265</b>	<b>81</b>	<b>60</b>	<b>35</b>	<b>441</b>

Semester 6

Subject	Hours / Week			Maximum Marks				Total	Marks Obtained				Total
	L	P	D	PP	TW	PR	OR		PP	TW	PR	OR	
Principles of Programming Languages	4	-	-	100	-	-	-	100	58	-	-	-	58
Computer Networks	4	-	-	100	-	-	-	100	65	-	-	-	65
Management Information Systems	4	-	-	100	-	-	-	100	49	-	-	-	49
Systems Programming	4	-	-	100	-	-	-	100	64	-	-	-	64
Software Engineering	4	-	-	100	-	-	-	100	43	-	-	-	43
Software Laboratory	-	4	-	-	25	50	-	75	-	18	36	-	54
Computer Network Laboratory	-	4	-	-	25	-	50	75	-	16	-	32	48
Software Dev. Tools Lab	-	4	-	-	50	-	-	50	-	32	-	-	32
Seminar Technical & Communication	-	4	-	-	50	-	-	50	-	36	-	-	36
<b>TOTAL</b>	<b>20</b>	<b>16</b>	<b>-</b>	<b>500</b>	<b>150</b>	<b>50</b>	<b>50</b>	<b>750</b>	<b>279</b>	<b>102</b>	<b>36</b>	<b>32</b>	<b>449</b>

Total for the Year: 890 + 10 / 1500  
Percentage: 60.00%


Result: First Class

Abbreviations used above are as follows: -  
L - Lectures  
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### **BACHELOR'S DEGREE COURSE IN COMPUTER ENGINEERING**

Name: Mr. Atul Rungta

Fourth Year Academic (2008 to 2009)

GR Number: 051034

Year of Passing : May 2009

#### **Semester 7**

Course Title	Hours Per Week			Credits			Grades		
	T	L	PS	T	L	PS	T	L	PS
Object Oriented Modeling & Design	3	1	-	3	1	-	BC	AB	-
Network Security	3	1	-	3	1	-	BC	BB	-
Design & Analysis of Algorithms	3	1	-	3	1	-	CD	BB	-
Operating Systems	3	1	-	3	1	-	BC	CD	-
Image Processing and Pattern Recognition	3	-	-	3	-	-	BB	-	-
Project - I	-	-	4	-	-	5	-	-	AA

#### **Semester 8**

Course Title	Hours Per Week			Credits			Grades		
	T	L	PS	T	L	PS	T	L	PS
Compiler Design	3	1	-	3	1	-	CD	BB	-
Software Design & Architecture	3	1	-	3	1	-	BC	BB	-
Computer Architecture	3	-	-	3	-	-	BC	-	-
Embedded Systems	3	1	-	3	1	-	BC	AB	-
Financial Management	3	-	-	3	-	-	AB	-	-
Seminar Based on Project	-	-	-	-	-	2	-	-	AA
Project	-	-	4	-	-	10	-	-	AA

Seventh Semester Record			Eight Semester Record		
Credits	Grade Points	SPI	Credits	Grade Points	SPI
24	182	7.58	30	250	8.33

Cumulative Semester Record		
Credits	Grade Points	CPI
54	432	8.00

\*multiply index by Nine to obtain Conventional Percentage of Marks

#### **Abbreviations used:**

T-Theory course

L-Laboratory course

PS - Project/Seminar

GP-General Proficiency course

D-Professional Development Course

SPI-Semester Performance Index

CPI-Cumulative Performance Index

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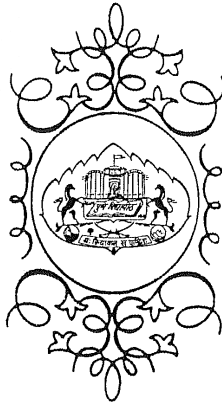
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# University Of Pune

(Formerly  
University of Poona)



*We, the Chancellor,  
the Vice Chancellor and  
the Members of the Management Council  
and the Academic Council of the University of Pune,  
upon recommendations of the Governing Body of  
Bansilal Ramnath Agarwal Charitable Trust's  
Vishwakarma Institute of Technology, Pune,  
an Autonomous Institution, certify*

*that Atul Rungta*

*Mother's Name: Manju*

*having been examined and found duly qualified for the  
degree of*

## Bachelor of Engineering

*(Computer)*

*in May 2009.*

*The said degree has been conferred on him.*

*In testimony whereof is set  
the seal of the said University.*

**TRUE COPY**

*PIO*  
**Administrative Officer,  
Vishwakarma Institute of Technology  
Pune.**

*2nd January 2010*

EN - 09862

*[Signature]*  
**Vice-Chancellor**